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## B. AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A computer implemented method comprising:  
receiving one or more performance goals;  
retrieving a first input parameter value from a plurality of input parameter values, the plurality of input parameter values corresponding to one or more of the performance goals;  
providing the first input parameter value to a test system;  
receiving one or more first output variables from the test system corresponding to the first input parameter value;  
adjusting the first input parameter value;  
providing the adjusted first input parameter value to the test system;  
receiving one or more second output variables from the test system corresponding to the adjusted first input parameter value;  
determining whether the second output variables are closer than the first output variables to one or more of the performance goals; and  
optimizing the adjusted first input parameter value based upon the determination;  
retrieving a second input parameter value from the plurality of input parameter values;  
providing the second input parameter value and the optimized first input parameter value to the test system;  
receiving one or more third output variables from the test system corresponding to the second input parameter value and the optimized first input parameter; and

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adjusting the second input parameter value based upon the received third output variables in order to meet one or more of the performance goals.

2. (Previously Amended) The method of claim 1 wherein the test system is a system automation engine and wherein the system automation engine is adapted to test a system under test using the first input parameter value and receive the first output variables from the system under test.
3. (Previously Canceled)
4. (Previously Amended) The method of claim 1 wherein the adjusting is selected from the group consisting of incrementing the first input parameter value and decrementing the first input parameter value.
5. (Canceled)
6. (Original) The method of claim 1 wherein the first input parameter is selected from the group consisting of a buffer size, a queue size, a background CPU utilization, and a task priority.
7. (Previously Amended) The method of claim 1 wherein at least one of the first output variables are selected from the group consisting of a maximum CPU utilization, an average CPU utilization, an average translation response time, and a maximum timer response time.
8. (Currently Amended) An information handling system comprising:  
one or more processors;  
a memory accessible by the processors;

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one or more nonvolatile storage devices accessible by the processors; and

an input parameter optimization tool for optimizing one or more input parameters, the input parameter optimization tool comprising software code effective to:

receive one or more performance goals over a computer network;

retrieve a first input parameter value from a plurality of input parameter values located in one of the nonvolatile storage devices, the plurality of input parameter values corresponding to one or more of the performance goals;

provide the first input parameter value to a test system;

receive one or more first output variables from the test system corresponding to the first input parameter value;

adjust the first input parameter value;

provide the adjusted first input parameter value to the test system;

receive one or more second output variables from the test system corresponding to the adjusted first input parameter value;

determine whether the second output variables are closer than the first output variables to one or more of the performance goals; and

optimize the adjusted first input parameter value based upon the determination;

retrieve a second input parameter value from the plurality of input parameter values located in one of the nonvolatile storage devices;

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provide the second input parameter value and the optimized first input parameter value to the test system;  
receive one or more third output variables from the test system corresponding to the second input parameter value and the optimized first input parameter; and  
adjust the second input parameter value based upon the received third output variables in order to meet one or more of the performance goals.

9. (Previously Amended) The information handling system of claim 8 wherein the test system is a system automation engine and wherein the system automation engine is adapted to test a system under test using the first input parameter value and receive the first output variables from the system under test.
10. (Canceled)
11. (Previously Amended) The information handling system of claim 8 wherein the adjusting is selected from the group consisting of incrementing the first input parameter value and decrementing the first input parameter value.
12. (Canceled)
13. (Original) The information handling system of claim 8 wherein the first input parameter is selected from the group consisting of a buffer size, a queue size, a background CPU utilization, and a task priority.

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14. (Currently Amended) A computer program product stored on a computer operable media for optimizing at least one of a plurality of input parameter values, said computer program product comprising software code effective to:
- receive one or more performance goals;
  - retrieve a first input parameter value from the plurality of input parameter values, the plurality of input parameter values corresponding to one or more of the performance goals;
  - provide the first input parameter value to a test system;
  - receive one or more first output variables from the test system corresponding to the first input parameter value;
  - adjust the first input parameter value;
  - provide the adjusted first input parameter value to the test system;
  - receive one or more second output variables from the test system corresponding to the adjusted first input parameter value;
  - determine whether the second output variables are closer than the first output variables to one or more of the performance goals; and
  - optimize the adjusted first input parameter value based upon the determination;
  - retrieve a second input parameter value from the plurality of input parameter values;
  - provide the second input parameter value and the optimized first input parameter value to the test system;
  - receive one or more third output variables from the test system corresponding to the second input parameter value and the optimized first input parameter; and

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adjust the second input parameter value based upon the received third output variables in order to meet one or more of the performance goals.

15. (Previously Amended) The computer program product of claim 14 wherein the test system is a system automation engine and wherein the system automation engine is adapted to test a system under test using the first input parameter value and receive the first output variables from the system under test.
16. (Canceled)
17. (Previously Amended) The computer program product of claim 14 wherein the adjusting is selected from the group consisting of incrementing the first input parameter value and decrementing the first input parameter value.
18. (Canceled)
19. (Original) The computer program product of claim 14 wherein the first input parameter is selected from the group consisting of a buffer size, a queue size, a background CPU utilization, and a task priority.
20. (Previously Amended) The computer program product of claim 14 wherein at least one of the first output variables are selected from the group consisting of a maximum CPU utilization, an average CPU utilization, an average translation response time, and a maximum timer response time.
21. (Canceled)

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22. (Previously Amended) A computer implemented method comprising:

- receiving one or more performance goals;
- retrieving a first input parameter value from a plurality of input parameter values, the plurality of input parameter values corresponding to one or more of the performance goals;
- providing the first input parameter value to a test system, wherein the test system is a system automation engine and wherein the system automation engine is adapted to test a system under test using the first input parameter value and receive one or more first output variables from the system under test;
- receiving one or more of the first output variables from the test system corresponding to the first input parameter value;
- adjusting the first input parameter value based upon the received first output variables in order to meet one or more of the performance goals;
- providing the adjusted first input parameter value to the test system;
- receiving one or more second output variables from the test system corresponding to the adjusted first input parameter value;
- determining whether the second output variables are closer than the first output variables to one or more of the performance goals; and
- performing the adjusting again based upon the determination.

23. (Canceled)

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24. (Canceled)

25. (Previously Amended) A computer program product stored on a computer operable media for optimizing at least one of a plurality of input parameter values, said computer program product comprising software code effective to:

- receive one or more performance goals;
- retrieve a first input parameter value from a plurality of input parameter values, the plurality of input parameter values corresponding to one or more of the performance goals;
- provide the first input parameter value to a test system, wherein the test system is a system automation engine and wherein the system automation engine is adapted to test a system under test using the first input parameter value and receive one or more first output variables from the system under test;
- receive one or more of the first output variables from the test system corresponding to the first input parameter value;
- adjust the first input parameter value based upon the received first output variables in order to meet one or more of the performance goals;
- provide the adjusted first input parameter value to the test system;
- receive one or more second output variables from the test system corresponding to the adjusted first input parameter value;
- determine whether the second output variables are closer than the first output variables to one or more of the performance goals; and



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perform the adjusting again based upon the determination.